PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	EOD EXIDERATED A CO	ELON			
25791.31.02	FOR FURTHER ACT	TION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/US04/00631	12 January 2004 (12.01.2				
International Patent Classification (IPC)	or national classification and	1 IPC			
IPC(8): E21B 17/02, 23/00 and US Cl.: 1	66/380, 382, 242.6; 228/194	4, 135; 285/21.2, 21.3, 2	288.3, 288.11, 289.5		
Applicant					
SHELL OIL COMPANY					
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT consists of	a total of sheets, incl	uding this cover sheet	t.		
	3. This report is also accompanied by ANNEXES, comprising:				
a. (sent to the applicant and to the International Bureau) a total of besheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
that goes bey	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. sent to the Interi	national Bureau only) a to	otal of (indicate type a	and number of electronic carrier(s))		
b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indica	tions relating to the follo	wing items:			
	asis of the report				
Box No. II Pi	riority				
	on-establishment of opini plicability	on with regard to nov	elty, inventive step and industrial		
Box No. IV La	ack of unity of invention	•			
			regard to novelty, inventive step or as supporting such statement		
11	ertain documents cited	•			
Box No. VII C	ertain defects in the interr	national application			
Box No. VIII Co	ertain observations on the	international applica	tion		
Date of submission of the demand		Date of completion	of this report		
04 August 2005 (04.08.2005)		07 February 2006 (07)	.02.2006)		
Name and mailing address of the IPEA/ US					
Mail Stop PCT, Attn: IPEA/US		D. Wilder	muto la		
Commissioner for Patents P.O. Box 1450		Hoang Dang	muto for		
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		Telephone No. 571-2			
Form PCT/IPEA/409 (cover sheet)(April 2005)					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International	application No.		
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PCT/US04/00631

Bo	x No.	. I Basis of the report
1.	With	regard to the language, this report is based on:
	\boxtimes	the international application in the language in which it was filed.
		a translation of the international application into English, which is the language of a translation furnished for the purposes of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4(a))
		international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2.	to the	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished a receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not xed to this report):
		the international application as originally filed/furnished
	\boxtimes	the description:
		pages 1-27 as originally filed/furnished pages* NONE received by this Authority on
		pages* NONE received by this Authority on
	\square	the claims:
		pages NONE as originally filed/furnished
		pages* NONE as amended (together with any statement) under Article 19
		pages* NONE received by this Authority on
		pages* 28-43 received by this Authority on 31 May 2005 (31.05.2005)
	\boxtimes	the drawings:
		pages 1-13 as originally filed/furnished
		pages* NONE received by this Authority on
		pages* NONE received by this Authority on
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages
		the claims, Nos
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
		4 applies, some or all of those sheets may be marked "superseded."

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US04/00631

Box No. IV	Lack of unity of invention
1. In resp	onse to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit:
	restricted the claims.
\boxtimes	paid additional fees.
	paid additional fees under protest, and, where applicable, the protest fee
	paid additional fees under protest but the applicable protest fee was not paid
	neither restricted the claims nor paid additional fees
	authority found that the requirement of unity of invention is not complied with and chose, according to Rule not to invite the applicant to restrict or pay additional fees.
3. This Author	ity considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
compl	ied with.
not co	mplied with for the following reasons:
This application concept under Po	contains the following inventions or groups of inventions which are not so linked as to form a single general inventive CT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.
Group I, claim(s	1-3, 5-17, 19-27, 29-89, 102-141, 149-162 and 170-192, drawn to a method, a tubular liner or an apparatus.
Group II, claim(s) 90-93, drawn to a tubular assembly.
Group III, claim	(s) 94-101, drawn to a cold-weldable insert.
13.2, they lack the of Gorup I is the claims of Gorup special technical forming a metall	sted as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule is same or corresponding special technical features for the following reasons: The special technical feature of the claims radially expanding and plastically deforming the coupled first and second tubes. The special technical feature of the II is the combination of a mechanical connection and a metallurgical connection between first and second tubes. The feature of the claims of Group III is the tapered tubular member fabricated from one or more materials capable of urgical bond with at least one adjacent tubular member. Unity between Groups I-III is lacking because each Group ent special technical feature as explained above.
4. Consequent	ly, this report has been established in respect of the following parts of the international application:
all r	earts
	parts relating to claims Nos
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Form PCT/IPEA/409 (Box No. IV) (April 2005)

International application No. PCT/US04/00631

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement					
N	ovelty (N)	aims Please See Continuation Sheet	_YES		
	C	aims Please See Continuation Sheet	_NO		
In	eventive Step (IS)	aims Please See Continuation Sheet	_YES		
	C	aims Please See Continuation Sheet	_NO		
In	dustrial Applicability (IA) C	aims Please See Continuation Sheet	YES		
		aims Please See Continuation Sheet	_NO		

2. Citations and Explanations (Rule 70.7)

Claims 52-54, 58-61, 102-117, 141, 149-182 and 188-192 lack novelty under PCT Article 33(2) as being anticipated by DANIEL (US 6,419,147) (see figures 1-6, column 3, lines 8-22; column 4, lines 11-25 and 50-67; column 5, lines 1-17; column 5, line 66 through column 6, line 11; and column 6, line 63 through column 7, line 3).

Claims 1-3, 5-17, 19-27, 29-51, 55-57, 62-101, 118-140 and 183-187 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the invention as claimed and wherein the insert comprises an inner core of a first material and an outer layer of a second material having a lower melting pint than the first material or wherein the insert (or the metallurgical connection) is a cold welded insert (or a cold welded connection) or wherein the metallurgical connection is formed during the radial expansion and plastic deformation of the first and second tubes.

Claims 1-3, 5-17, 19-27, 29-141, 149-162 and 170-192 meet the criteria set out in PCT Article 33(4), and thus having industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box No. V) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/00631

Supplemental Box	
In case the space in any of the preceding boxes is not sufficient.	
Continuation of:	
V.1. Reasoned Statements: The opinion as to Novelty was positive (Yes)with respect to claims 1-3, 5-17, 19-27, 29-51, 55-57, 62-101, 118-140 and 183-187 The opinion as to Novelty was negative (No) with respect to claims 52-54, 58-61, 102-117, 141, 149-162, 170-182 and 188-192 The opinion as to Inventive Step was positive (Yes)with respect to claims 1-3, 5-17, 19-27, 29-51, 55-57, 62-101, 118-140 and 183-187 The opinion as to Inventive Step was negative(NO) with respect to claims 52-54, 58-61, 102-117, 141, 149-162, 170-182 and 188-192 The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-3, 5-17, 19-27, 29-141, 149-162 and 170-192 The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE	
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